

# The NTSB and Impaired Driving: Actions Needed to Reach Zero

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## Federal Agencies: Transportation

NTSB

**FMCSA** 

FRA

**NHTSA** 

**PHMSA** 

DOT

FTA

**MARAD** 

FHWA

FAA













- 1) determining the probable cause of transportation accidents
  - 2) making recommendations to prevent their recurrence





## Key On-scene Events



#### **Organizational Meeting**

- Designate parties and party coordinators
- Establish and organize groups

#### **Progress Meetings**

- Summarize findings
- Info for briefings



Family Briefings

> Press Briefings



## Commercial Vehicle Collision with Passenger Vehicle and Motor Coach (Orland, CA; 4/10/14)









## NTSB Investigative Process



On-scene Investigation

Organizational
Meeting
Groups and
Parties

Progress meetings Media Briefings Press Releases



Preliminary Report

Factual information



Public Hearing

Fact finding
Depositions
Witnesses
Docket



Board Meeting

Docket Findings

Conclusions

**Probable Cause** 

Safety Recommendations In-Flight Separation of Vertical Stabilize American Airlines Flight 587 Airbus Industrie A300-605R, N14053 Belle Harbor, New York November 12, 2001



Final Report

Government in the Sunshine Act

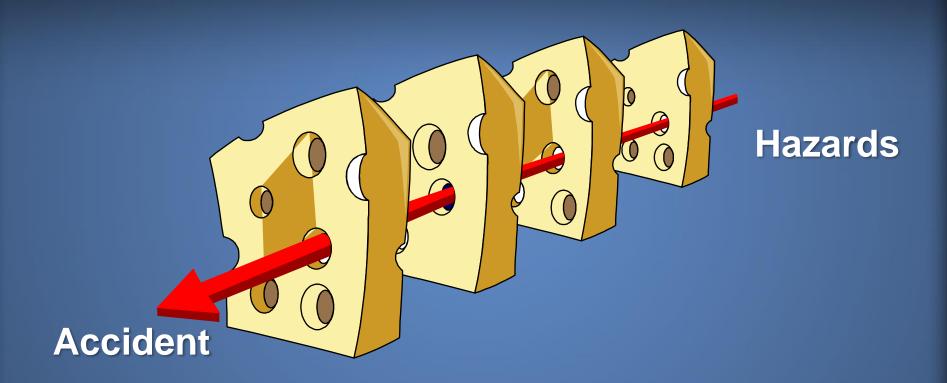


### Independent Federal Agency: Created in 1967

- ~ 132,000 accident investigations
- 13,500+ safety recommendations
- ~ 2,500 organizations/recipients
- 82% acceptance rate



### "Swiss Cheese" Model (Reason)



Successive layers of defenses, barriers, and safeguards



### NTSB Characterized as:

'moral compass and industry conscience'

NTSB Chairman Deborah A.P. Hersman



## Carrollton, KY (May 14, 1988)



67 passengers, 27 fatalities, 34 serious injuries; driver: .28 BAC



### Since 1988 . . .

• 300,000 lives lost

Millions injured



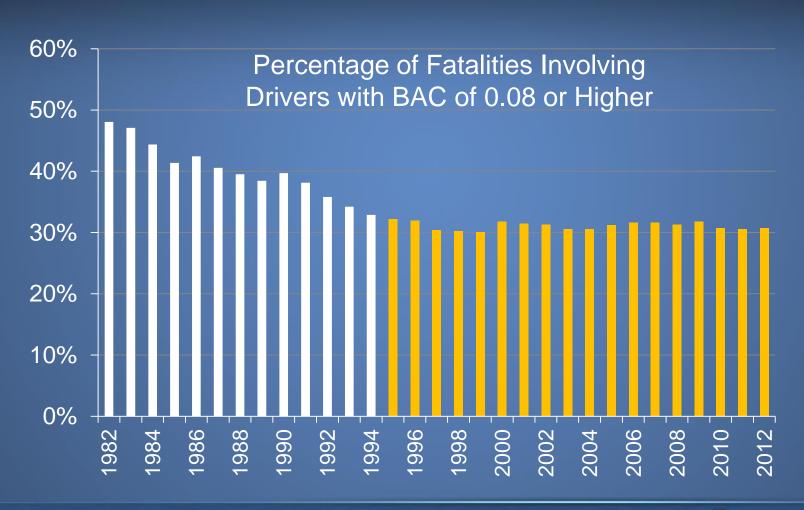
### Since 1988 . . .

41% of fatalities to 31%

• 31% for over 15 years



## Alcohol-Impaired Driving





Since 1988 . . .

200 law enforcement lives lost



Every Year . . .

• ~ 10,000 lives lost



## Every Year . . .

- 173,000 injuries
  - 27,000 are life-altering

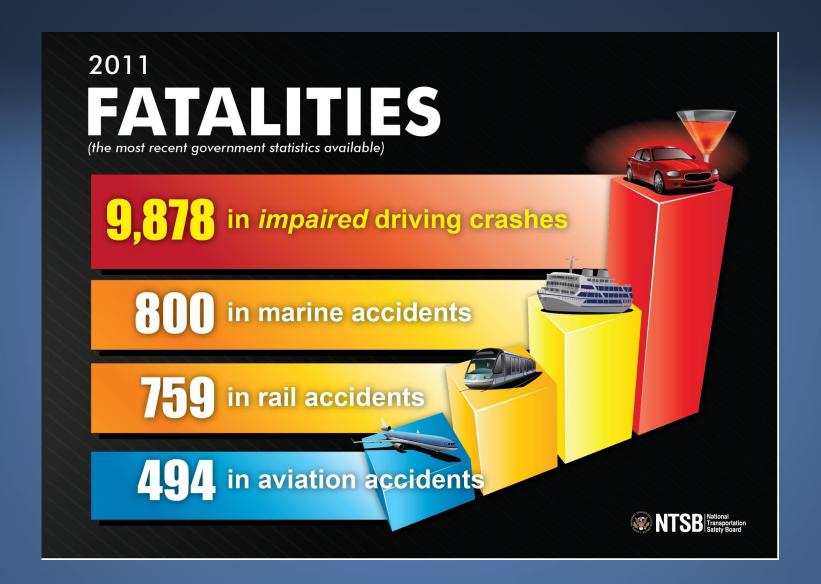


## Every Hour . . .

• 1 life lost

20 injuries







## NTSB Forum: May 15-16, 2012

## REACHING ZERO

Actions to Eliminate Substance-Impaired Driving



## NTSB Forum: May 15-16, 2012

- 8 panels with 37 panelists
- Topics included:
  - the substance
  - current interventions
  - consequences
  - international view

- the problem
- enforcement
- prevention
- next steps



## November 14, 2012

#### MOST WANTED LIST

The Most Wanted List represents the NTSB's advocacy priorities. It is designed to increase awareness of, and support for, the most critical changes needed to reduce transportation accidents and save lives.





## November 23, 2012...

 NTSB issued 6 new safety recommendations

Focus: better data



#### Wrong-Way Driving



**Special Investigation Report** 

NTSB/SIR-12/01 PB2012-917003





## December 11, 2012...

- Wrong-way driver report
  - > 60% involve alcohol-impaired drivers
- NTSB issues 3 new safety recommendations
- Technology focus:
  - all offender ignition interlock
  - in-vehicle passive monitoring (DADSS)



#### Reaching Zero: Actions to Eliminate Alcohol-Impaired Driving



#### Safety Report

NTSB/SR-13/01 PB2013-106566





## May 14, 2013...

- Safety Study
  - Reaching Zero: Actions to Eliminate Alcohol-Impaired Driving
- NTSB issues 10 new safety recommendations



## 10 New Safety Recommendations

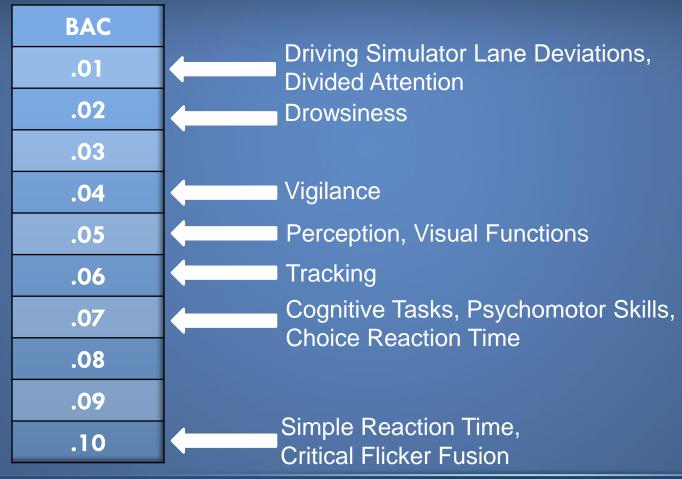
- Laws: reducing per se BAC limit; expand ALS/ALR
- HVE incorporating PAS technology
- Expand use of in-vehicle devices (ignition interlocks)
- Repeat offenders: use DWI courts/other programs
- Establishing measurable goals/tracking progress (states)



# Alcohol Impairment and Per Se Laws

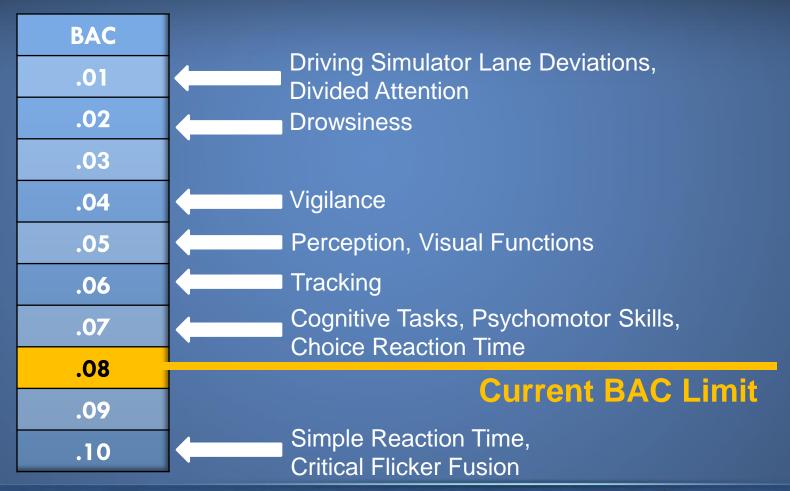


## Driving-Related Performance



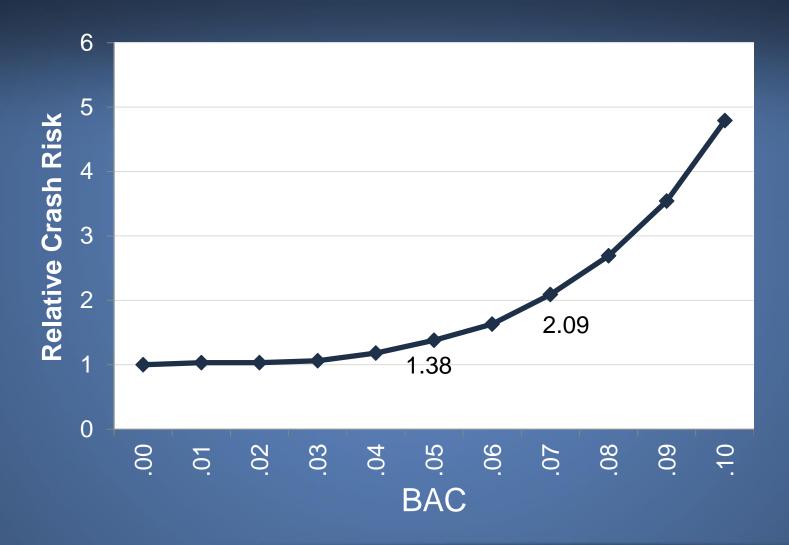


## Driving-Related Performance





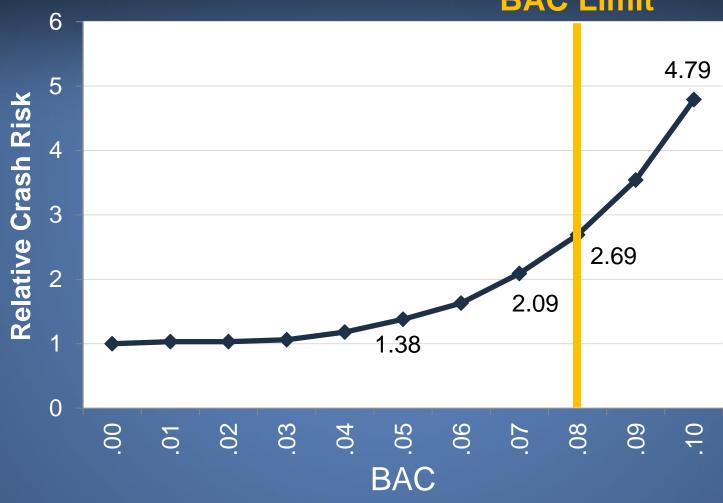
## Crash Risk





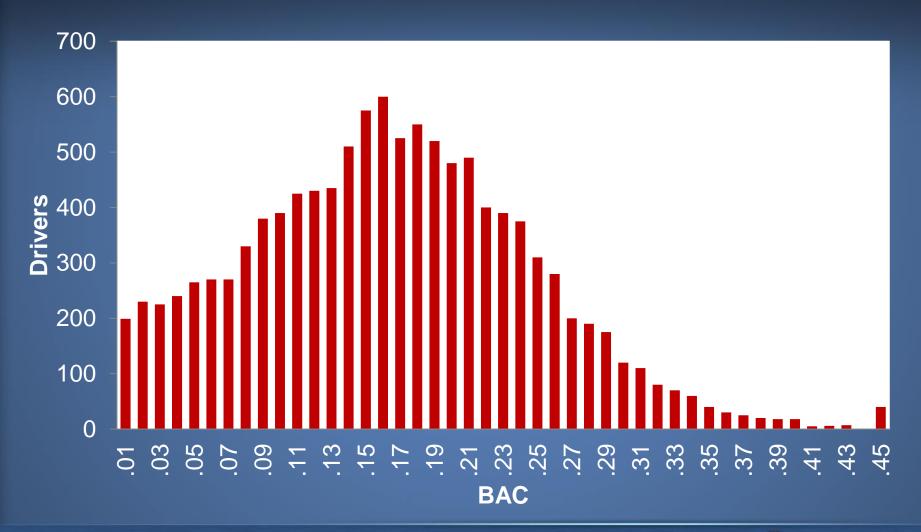
## Crash Risk

## **Current BAC Limit**



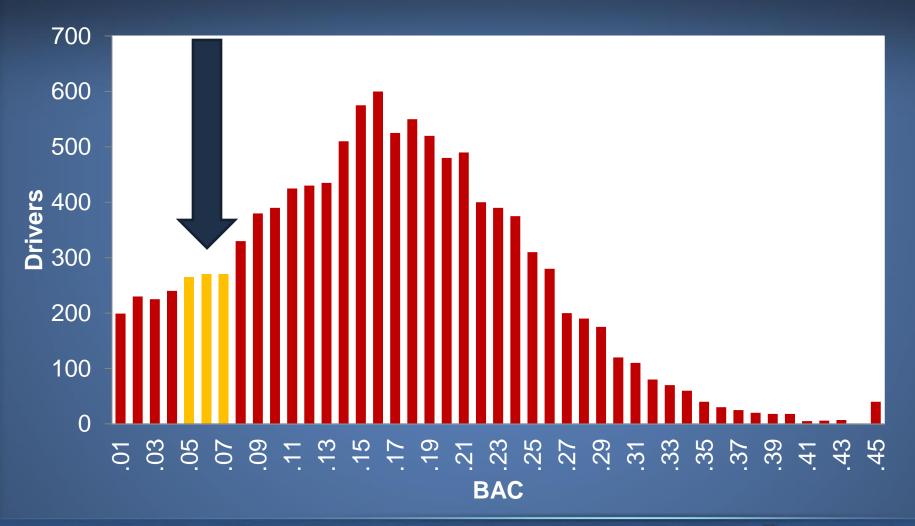


## Fatal Crashes (2012): BAC ≥ .01



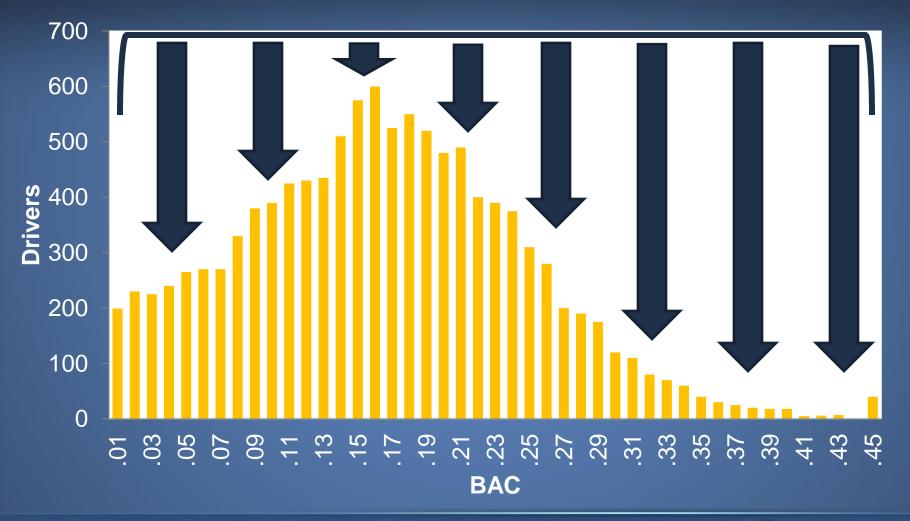


#### Misconception: Changing BAC Affects Small Group





#### Reality: Changing BAC Affects Drivers at All Levels





## Reducing Per Se BAC Limits

- Reduces crashes and fatalities across BAC levels
- Move from 0.10 to 0.08
  - 5-16% reduction in crashes, fatalities or injuries
- Estimated:
  - prevents 360 deaths/yr
  - 0.08 to 0.05 prevent additional 538 deaths/yr



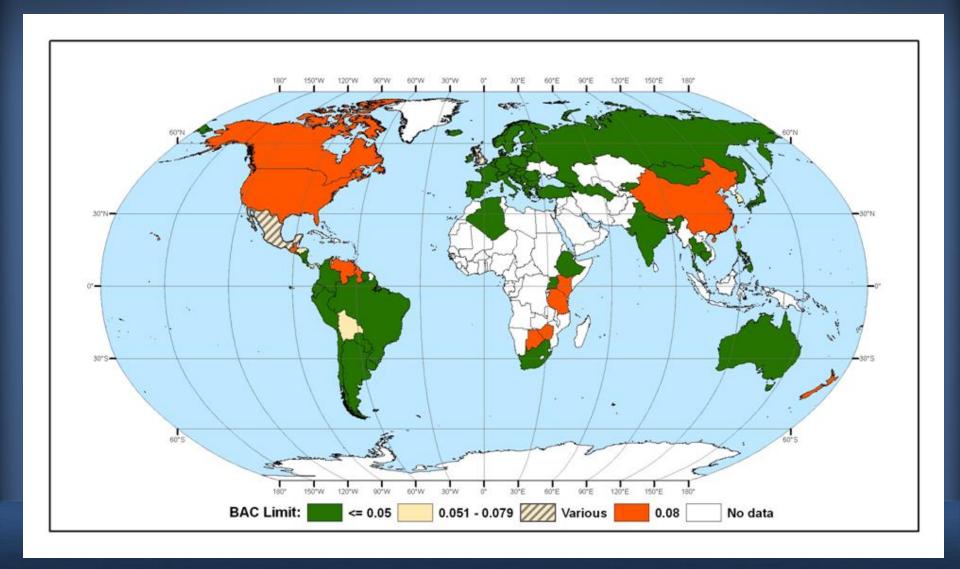
## Reducing Per Se BAC Limits

• Lowering BAC from 0.08 to ≤ 0.05

- Europe: fatal crashes reduced among males and people aged 18-49
- Australia: fatal crashes reduced 8% & 18% (could prevent ~1,000 – 2,000 deaths/yr)



## BAC Per Se Limits World Wide

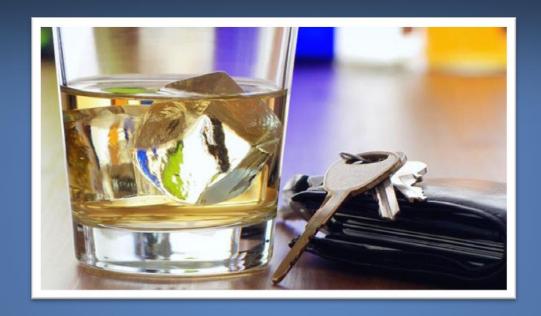


## Traffic Safety and Public Health Support

- Association for the Advancement of Automotive Medicine
- American Medical Association
- World Health Organization
- World Medical Association



## Separate



Drinking \to Driving



# REACHING ZERO

- **Lower BAC limit**
- Increased use of high-visibility enforcement
- Use of in-vehicle alcohol detection technology
- Ignition interlocks for all offenders
- **■** Enhanced use of Administrative License Actions
- **■** Target repeat offenders
- Use of DWI Courts

REACHING ZERO





## NTSB Roadmap

- Science-based/data-driven
- Diverse approaches
- Set of targeted interventions
- Near- and long-term strategies



## Reaching Zero: NTSB Roadmap

- Stronger laws
  - Swifter enforcement
    - Expanded use of technology







## | National Transportation Safety Board